

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:

**May
2010**

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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State of California
Department of Water Resources
P.O. Box 942836
Sacramento, CA 94236-0001

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MARK COWIN, Director

Department of Water Resources
DALE HOFFMAN-FLOERKE, Chief Deputy Director

VACANT Deputy Director	CARL TORGERSEN Deputy Director	GARY BARDINI Deputy Director	KATHIE KISHABA Deputy Director	VACANT Deputy Director
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DIVISION OF OPERATIONS AND MAINTENANCE

David Starks..... Chief, Division of Operations and Maintenance

This report was prepared under the direction of

David Roose..... Office Chief, Operations Control Office

John Leahigh..... Principal Engineer, Water Operations office

Tracy Hinojosa Branch Chief, Regulatory Compliance and Reporting Branch

By the Reporting Section

(Vacant)..... Section Chief, Reporting Section

Michael Nolasco..... Water Resources Engineering Associate (Specialist)

Mary Valdez Water Resources Engineering Associate (Specialist)

The organization shown above represents staff and positions relevant to this report as of publication date on October 2012. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following activities highlight actions that affected State Water Project operations during May 2010:

Statewide precipitation was about 115 percent of average for the 2009 – 2010 water-year through May 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at: [“http://cdec.water.ca.gov/snow_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State.

May snowpack data is not available.

Cumulative unimpaired runoff for the Sacramento River Region for the 2009 – 2010 water-year was 12.3 maf, 77 percent of average. Statewide runoff for the 2009 – 2010 water-year was 80 percent of average.

Statewide reservoir storage was 95 percent of average to date. Total storage in major SWP reservoirs at the end of May was about 3.73 maf compared to 3.34 maf at this time in 2009. On May 31, end-of-month storage at Lake Oroville was about 2.49 maf, as compared to 2.28 maf at this time in 2009. The State share of San Luis Reservoir's end-of-month storage was about 688 taf, as compared with 500 taf at this time in 2009. The combined storage in SWP's southern reservoirs was about 553 taf, compared with about 558 taf at this time in 2009.

SWP water deliveries to date through May were about 683 taf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2009 were 693 taf.

Conditions in the Delta remained in “Excess” with restrictions due to fish concerns throughout the month of May. Excess conditions exist when upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports.

On May 5, and May 7, 2010, Edmonston schedule was decreased due to weeds in Pastoria Siphon. On May 23, 2010, Devil Canyon Plant was forced out of service (Units 1-4), due to a ground fault from possible lightning strikes in the area. The line was restored later in the day and all units were available.

Table 1. Antelope Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 22,566 ac-ft

May 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Apr 30	5002.69	23,210									
1	5002.68	23,201	-9	20	0	0	74	10	104	99	
2	5002.68	23,201	0	20	0	0	74	10	104	104	
3	5002.68	23,201	0	20	0	0	74	10	104	104	
4	5002.78	23,295	94	20	0	0	93	10	123	170	
5	5002.78	23,295	0	20	0	0	93	10	123	123	
6	5002.75	23,267	-28	20	0	0	87	10	117	103	
7	5002.72	23,238	-29	20	0	0	81	10	111	96	
8	5002.72	23,238	0	20	0	0	81	10	111	111	
9	5002.70	23,219	-19	20	0	0	78	10	108	98	
10	5002.73	23,248	29	20	0	0	83	10	113	128	
11	5002.69	23,210	-38	20	0	0	76	10	106	87	
12	5002.68	23,201	-9	20	0	0	74	10	104	99	
13	5002.66	23,182	-19	20	0	0	71	10	101	91	
14	5002.66	23,182	0	20	0	0	71	10	101	101	
15	5002.66	23,182	0	20	0	0	71	10	101	101	
16	5002.67	23,191	9	20	0	0	73	10	103	108	
17	5002.72	23,238	47	20	0	0	81	10	111	135	
18	5002.70	23,219	-19	20	0	0	78	10	108	98	
19	5002.67	23,191	-28	20	0	0	73	10	103	89	
20	5002.67	23,191	0	20	0	0	73	10	103	103	
21	5002.64	23,163	-28	20	0	0	67	10	97	83	
22	5002.61	23,135	-28	20	0	0	62	10	92	78	
23	5002.58	23,106	-29	20	0	0	58	9	87	72	
24	5002.56	23,088	-18	20	0	0	54	9	83	74	
25	5002.54	23,069	-19	20	0	0	51	9	80	70	
26	5002.52	23,050	-19	20	0	0	48	9	77	67	
27	5002.52	23,050	0	20	0	0	48	9	77	77	
28	5002.52	23,050	0	20	0	0	48	9	77	77	
29	5002.52	23,050	0	20	0	0	48	9	77	77	
30	5002.50	23,031	-19	20	0	0	45	9	74	64	
31	5002.48	23,012	-19	20	0	0	43	9	72	62	
Total cfs-days			---	620	0	0	2,131	152	2,903	2,803	
Total ac-ft			-198	1,230	0	0	4,227	301	5,758	5,560	

* Estimated daily values.

Table 2. Frenchman Lake

Daily Operation
(in acre-feet except as noted)

Capacity: 55,477 ac-ft

May 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Apr 30	5559.16	20,739									
1	5562.17	27,216	6,477	2	0	0	0	6	8	3,273	
2	5562.29	27,338	122	2	0	0	0	6	8	70	
3	5562.35	27,480	142	2	0	0	0	6	8	80	
4	5566.52	27,674	194	2	0	0	0	6	8	106	
5	5566.72	27,878	204	2	0	0	0	6	8	111	
6	5566.88	28,042	164	2	0	0	0	6	8	91	
7	5567.02	28,187	145	2	0	0	0	6	8	81	
8	5567.14	28,311	124	2	0	0	0	6	8	71	
9	5567.28	28,456	145	2	0	0	0	6	8	81	
10	5576.44	28,622	166	2	12	0	0	6	20	104	
11	5576.54	28,726	104	2	20	0	0	6	28	80	
12	5567.60	28,789	63	2	20	0	0	6	28	60	
13	5567.65	28,841	52	2	20	0	0	6	28	54	
14	5567.71	28,903	62	2	20	0	0	6	28	59	
15	5567.78	28,977	74	2	20	0	0	6	28	65	
16	5567.84	29,040	63	2	20	0	0	6	28	60	
17	5567.91	29,113	73	2	20	0	0	6	28	65	
18	5567.96	29,166	53	1	31	0	0	6	38	65	
19	5567.97	29,176	10	0	43	0	0	5	48	53	
20	5567.97	29,176	0	0	46	0	0	5	51	51	
21	5568.03	29,243	67	0	42	0	0	5	47	81	
22	5568.05	29,264	21	0	39	0	0	5	44	55	
23	5568.03	29,243	-21	0	39	0	0	5	44	33	
24	5568.05	29,264	21	1	10	0	0	5	16	27	
25	5568.06	29,275	11	1	23	0	0	5	29	35	
26	5568.06	29,275	0	1	30	0	0	5	36	36	
27	5568.10	29,317	42	1	29	0	0	5	35	56	
28	5568.13	29,349	32	1	26	0	0	5	32	48	
29	5568.13	29,349	0	1	24	0	0	5	30	30	
30	5568.13	29,349	0	1	24	0	0	5	30	30	
31	5568.13	29,349	0	1	24	0	0	5	30	30	
Total cfs-days				---	43	582	0	0	173	798	5,139
Total ac-ft				8,610	85	1,154	0	0	344	1,584	10,194

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

May 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract					
Apr 30	5766.46	53,749									
1	5766.52	53,937	188	10	0.2	0	0	17	27	122	
2	5766.58	54,126	189	10	0.2	0	0	17	27	122	
3	5766.67	54,409	283	10	0.2	0	0	17	27	170	
4	5766.75	54,662	253	10	0.2	0	0	17	27	155	
5	5766.82	54,884	222	10	0.2	0	0	16	26	138	
6	5766.85	54,980	96	10	0.2	0	0	16	26	74	
7	5766.90	55,139	159	10	0.2	0	0	16	26	106	
8	5766.92	55,202	63	10	0.2	0	0	16	26	58	
9	5766.95	55,298	96	10	0.2	0	0	16	26	74	
10	5767.10	55,778	480	10	0.2	0	0	16	26	268	
11	5767.13	55,874	96	10	0.2	0	0	16	26	74	
12	5767.17	56,002	128	10	0.2	0	0	16	26	91	
13	5767.21	56,131	129	10	0.2	0	0	16	26	91	
14	5767.22	56,163	32	10	0.2	0	0	16	26	42	
15	5767.26	56,292	129	10	0.2	0	0	16	26	91	
16	5767.28	56,356	64	10	0.2	0	0	16	26	58	
17	5767.34	56,550	194	10	0.2	0	0	16	26	124	
18	5767.34	56,550	0	10	0.2	0	0	16	26	26	
19	5767.37	56,647	97	10	0.2	0	0	16	26	75	
20	5767.40	56,744	97	10	0.2	0	0	16	26	75	
21	5767.45	56,906	162	10	0.2	0	0	16	26	108	
22	5767.46	56,938	32	10	0.2	0	0	16	26	42	
23	5767.46	56,938	0	10	0.2	0	0	16	26	26	
24	5767.47	56,971	33	10	0.2	0	0	16	26	43	
25	5767.47	56,971	0	10	0.2	0	0	16	26	26	
26	5767.53	57,165	194	10	0.2	0	0	16	26	124	
27	5767.61	57,426	261	10	0.2	0	0	16	26	158	
28	5767.63	57,491	65	10	0.2	0	0	16	26	59	
29	5767.63	57,491	0	10	0.2	0	0	16	26	26	
30	5767.63	57,491	0	10	0.2	0	0	16	26	26	
31	5767.63	57,491	0	10	0.2	0	0	16	26	26	
Total cfs-days				---	304	6	0	0	500	810	2,697
Total ac-ft				3,742	603	12	0	0	992	1,607	5,349

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

May 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Apr 30	792.97	2,113,446										
	1 794.90	2,134,741	21,295	173	4	0	0	135	0	312	0	21,607
	2 796.66	2,154,292	19,551	1,786	4	0	0	141	0	1,931	0	21,482
	3 798.48	2,174,642	20,350	141	4	0	0	190	0	335	0	20,685
	4 800.39	2,196,144	21,502	141	4	0	0	173	0	318	0	21,820
	5 802.22	2,216,886	20,742	895	4	0	0	174	0	1,073	0	21,815
	6 803.52	2,231,703	14,817	5,410	4	0	0	207	0	5,621	0	20,438
	7 804.44	2,242,231	10,528	7,712	4	0	0	239	0	7,955	0	18,483
	8 805.84	2,258,318	16,087	1,653	4	0	0	107	0	1,764	0	17,851
	9 807.30	2,275,181	16,863	1,827	4	0	0	158	0	1,989	0	18,852
	10 808.74	2,291,898	16,717	1,962	11	0	0	140	0	2,113	0	18,830
	11 810.09	2,307,649	15,751	1,991	14	0	0	32	0	2,037	0	17,788
	12 810.77	2,315,610	7,961	7,635	14	0	0	142	0	7,791	0	15,752
	13 811.42	2,323,239	7,629	8,701	14	0	0	187	0	8,902	0	16,531
	14 812.11	2,331,356	8,117	9,321	12	0	0	233	0	9,566	0	17,683
	15 812.97	2,341,500	10,144	6,654	10	0	0	188	0	6,852	0	16,996
	16 814.33	2,357,605	16,105	2,745	10	0	0	188	0	2,943	0	19,048
	17 815.23	2,368,304	10,699	9,036	10	0	0	170	0	9,216	0	19,915
	18 816.51	2,383,579	15,275	4,622	10	0	0	46	0	4,678	0	19,953
	19 817.25	2,392,441	8,862	4,622	10	0	0	112	0	4,744	0	13,606
	20 818.10	2,402,648	10,207	10,636	10	0	0	46	0	10,692	0	20,899
	21 818.86	2,411,800	9,152	10,057	10	0	0	192	0	10,259	0	19,411
	22 819.69	2,421,822	10,022	6,909	10	0	0	99	0	7,018	0	17,040
	23 820.47	2,431,272	9,450	4,624	10	0	0	159	0	4,793	0	14,243
	24 821.05	2,438,317	7,045	6,762	10	0	0	187	0	6,959	0	14,004
	25 821.45	2,443,184	4,867	8,751	10	0	0	154	0	8,915	0	13,782
	26 822.07	2,450,741	7,557	8,617	10	0	0	67	0	8,694	0	16,251
	27 822.85	2,460,271	9,530	7,874	13	0	0	114	0	8,001	0	17,531
	28 823.45	2,467,620	7,349	7,198	14	0	0	0	0	7,212	0	14,561
	29 824.14	2,476,090	8,470	6,625	14	0	1	128	0	6,768	0	15,238
	30 824.80	2,484,211	8,121	6,280	14	0	1	243	0	6,538	0	14,659
	31 825.56	2,493,585	9,374	6,374	14	1	1	210	0	6,600	0	15,974
Total		380,139	167,734	290	1	3		4,561	0	172,589	0	552,728

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

May 2010

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Apr 30	23,487										
1	22,563	-924	173	486	0	91	0	5	1,535	0	48
2	23,334	771	1,786	486	0	91	0	5	1,507	0	102
3	22,430	-904	141	486	0	91	0	5	1,521	0	86
4	21,564	-866	141	486	0	91	0	5	1,490	0	93
5	21,244	-320	895	486	0	91	0	5	1,424	0	-181
6	23,538	2,294	5,410	486	0	2,168	0	5	1,339	0	-90
7	22,941	-597	7,712	486	0	7,022	0	5	1,390	0	-378
8	23,662	721	1,653	486	0	91	0	5	1,365	0	43
9	23,376	-286	1,827	486	0	1,267	0	5	1,386	0	59
10	24,075	699	1,962	486	0	1,208	0	5	1,390	0	854
11	23,681	-394	1,991	473	0	1,572	0	5	1,400	0	119
12	23,878	197	7,635	485	0	6,603	0	5	1,390	0	75
13	24,446	568	8,701	486	0	7,368	0	5	1,396	0	150
14	23,594	-852	9,321	486	0	9,187	0	5	1,398	0	-69
15	23,621	27	6,654	486	0	5,320	0	5	1,381	0	-407
16	23,935	314	2,745	486	0	1,463	0	5	1,379	0	-70
17	23,833	-102	9,036	486	0	8,242	0	5	1,398	0	21
18	23,670	-163	4,622	485	0	3,623	0	5	1,396	0	-246
19	23,969	299	4,622	431	0	3,623	0	5	1,404	0	278
20	23,563	-406	10,636	462	0	3,608	0	5	1,404	0	-6,487
21	22,993	-570	10,057	486	0	9,645	0	5	1,388	0	-75
22	22,302	-691	6,909	486	0	6,485	0	4	1,371	0	-226
23	22,839	537	4,624	282	0	3,274	0	4	1,369	0	278
24	23,116	277	6,762	486	0	5,336	0	4	1,390	0	-241
25	23,644	528	8,751	486	0	6,986	0	4	1,402	0	-317
26	23,887	243	8,617	425	0	6,749	0	4	1,406	0	-640
27	23,714	-173	7,874	486	0	7,069	0	4	1,377	0	-83
28	24,039	325	7,198	486	0	5,800	0	4	1,379	0	-176
29	23,934	-105	6,625	486	0	5,684	0	4	1,373	0	-155
30	24,190	256	6,280	486	0	5,361	0	4	1,367	0	222
31	23,841	-349	6,374	486	0	5,726	0	4	1,369	0	-110
Total		354	167,734	14,707	0	130,935	0	145	43,484	0	-7,523

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation
(in acre-feet except as noted)

Capacity: 57,040 ac-ft

May 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Apr 30	133.78	45,854										
	1	133.69	45,502	-352	91	14	0	0	343	0	-86	1,878
	2	133.59	45,112	-390	91	2	0	0	345	0	-73	1,852
	3	133.37	44,259	-853	91	258	0	0	159	345	0	-182
	4	133.07	43,108	-1,151	91	553	0	135	222	341	0	9
	5	132.63	41,446	-1,662	91	744	0	133	317	351	0	-208
	6	132.79	42,047	601	2,168	778	0	270	361	357	0	199
	7	133.98	46,642	4,595	7,022	912	0	369	460	367	0	-319
	8	133.36	44,220	-2,422	91	1,265	13	381	682	371	0	199
	9	132.75	41,897	-2,323	1,267	1,668	28	432	901	365	0	-196
	10	131.88	38,684	-3,213	1,208	1,952	36	504	1,079	361	0	-489
	11	131.14	36,045	-2,639	1,572	2,083	40	458	1,139	353	0	-138
	12	131.69	37,998	1,953	6,603	2,301	40	436	1,283	347	0	-243
	13	132.32	40,294	2,296	7,368	2,479	40	490	1,422	351	0	-290
	14	133.26	43,836	3,542	9,187	2,717	38	528	1,632	456	0	-274
	15	133.16	43,452	-384	5,320	2,975	26	607	1,813	536	0	253
	16	131.76	38,250	-5,202	1,463	3,233	22	684	1,910	547	0	-269
	17	132.02	39,193	943	8,242	3,451	24	781	1,926	557	0	-560
	18	131.17	36,150	-3,043	3,623	3,471	30	819	1,940	559	0	153
	19	131.72	38,106	1,956	3,623	3,471	26	821	1,970	559	0	5,180
	20	132.46	40,812	2,706	3,608	3,491	13	780	1,984	545	0	5,911
	21	133.00	42,842	2,030	9,645	3,491	18	762	2,162	553	0	-629
	22	132.83	42,198	-644	6,485	3,491	30	762	2,281	543	0	-22
	23	131.88	38,684	-3,514	3,274	3,511	30	803	2,182	541	0	279
	24	131.33	36,714	-1,970	5,336	3,431	30	819	2,162	555	0	-309
	25	131.44	37,104	390	6,986	3,273	24	708	2,162	563	0	134
	26	131.67	37,926	822	6,749	3,174	18	641	1,970	565	0	441
	27	132.03	39,229	1,303	7,069	2,936	18	599	1,628	670	0	85
	28	132.38	40,516	1,287	5,800	2,579	18	530	1,260	758	0	632
	29	132.65	41,521	1,005	5,684	2,420	16	482	954	756	0	-51
	30	132.81	42,123	602	5,361	2,341	14	472	815	760	0	-357
	31	133.13	43,337	1,214	5,726	2,261	14	436	845	752	0	-204
Total				-2,517	130,935	70,726	606	15,640	39,680	15,372	0	8,572
												58,856

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

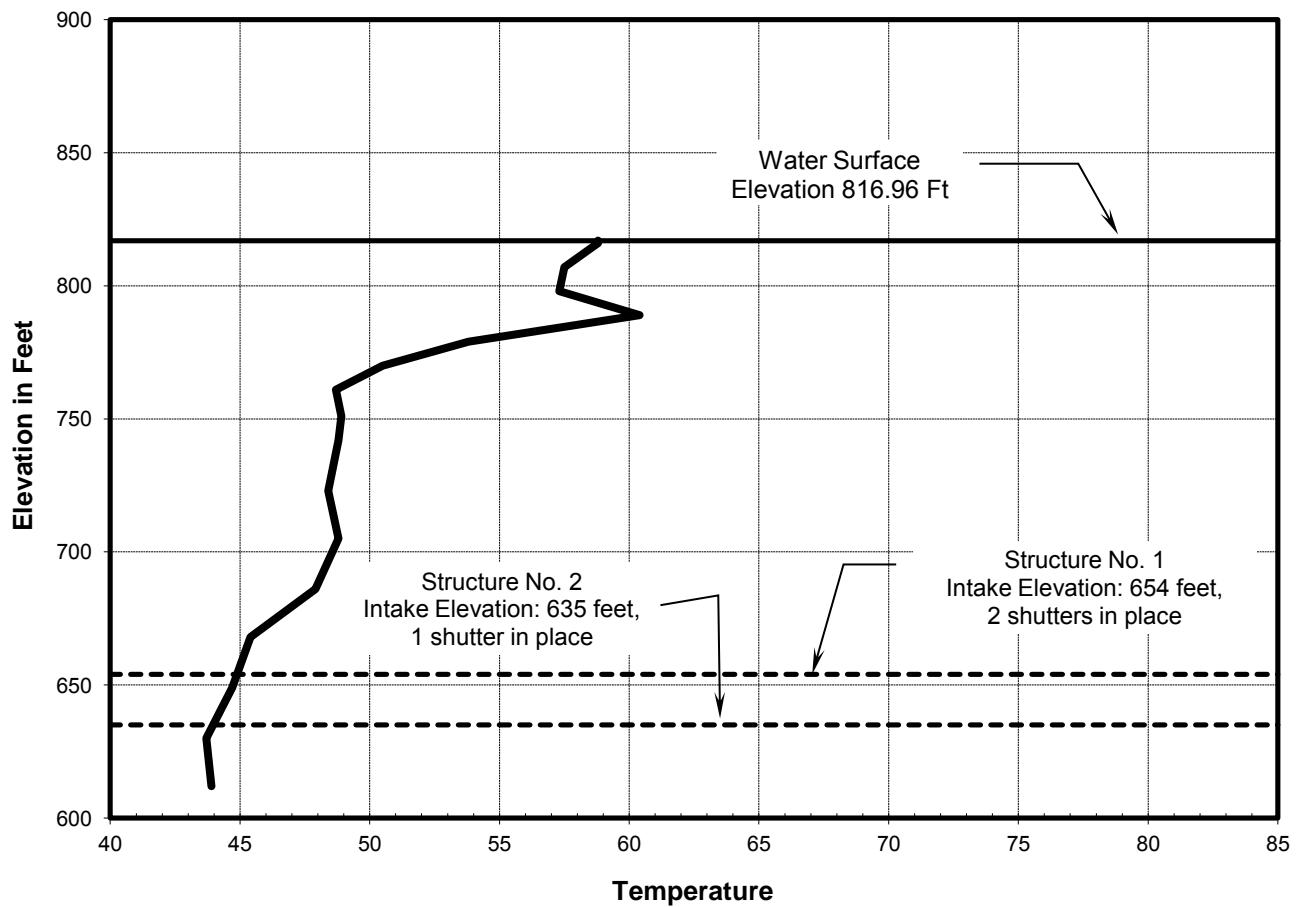
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

May 2010

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	61.4	51
2	62.6	50
3	62.8	51
4	63.1	51
5	62.7	52
6	60.9	52
7	61	50
8	60.3	49
9	59.7	49
10	59.3	49
11	60.2	49
12	62.3	50
13	63.2	49
14	63.2	49
15	62.7	49
16	61.4	49
17	59.3	49
18	59.7	48
19	59.9	49
20	61.8	48
21	61.4	48
22	61.3	48
23	62	49
24	60.3	50
25	60	50
26	58.5	51
27	58.4	52
28	58.8	53
29	60.5	55
30	60.9	56
31	59.1	56

**Lake Oroville Temperature Profile
on May 19, 2010**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	Permit	Article 56C	Article 21	Settlement	
	No.	Structure	Mile								
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	4,369	1/ 51 200	11	43	200 292 1,255	124 287	
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis AFB	243						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	416						
				Solano County Water Agency Fairfield / Vacaville 42"	1,542						
			17.00	Solano County Water Agency Central Solano	Stub						
		Cordelia Forebay	21.23								
		Cordelia Pumping Plant & Cordelia Spillway	21.30		2,092						
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	93						
				Solano County Water Agency Benicia	806						
3B	2	Cordelia Surge Tank	23.33			606	347	600	31		
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	0						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	947						
			27.60	Napa County Flood Control & WCD American Canyon 1	246						

1/ Includes 1 AF of Napa Co. FC&WCD Table A through Solano's Co.'s turnout for delivery to American Canyon.

Table 9. Delta Field Division Plant Data

(in acre-feet)

May 2010

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	99	72	1,320	1,320	311	0	0	0
2	112	74	1,318	1,318	301	0	0	0
3	112	59	1,313	1,313	359	0	0	0
4	117	60	1,315	1,315	317	0	0	0
5	111	52	1,307	1,307	342	0	0	0
6	125	52	1,321	1,321	304	0	0	0
7	145	71	1,604	1,604	308	0	0	0
8	159	77	3,023	3,023	200	0	0	0
9	150	71	1,985	1,985	163	0	0	0
10	131	55	850	850	184	0	0	10
11	103	27	0	0	79	0	0	50
12	68	27	0	0	95	0	0	59
13	127	50	0	0	66	0	0	66
14	148	61	0	0	90	0	0	71
15	174	77	0	0	137	0	0	59
16	176	85	0	0	132	0	0	59
17	186	98	0	0	146	0	0	72
18	169	82	0	0	95	0	0	98
19	152	69	0	0	91	0	0	114
20	157	82	0	0	91	0	0	136
21	167	87	866	866	95	0	0	156
22	159	66	2,962	2,962	141	0	0	130
23	165	72	1,604	1,604	118	0	0	106
24	151	74	1,301	1,301	179	0	0	72
25	137	71	1,568	1,568	249	0	0	25
26	129	59	6,485	6,485	243	0	0	0
27	145	72	2,156	2,156	243	0	0	0
28	141	68	4,328	4,328	258	0	0	0
29	144	69	6,749	6,749	274	0	0	0
30	150	70	7,956	7,956	252	0	0	0
31	160	83	8,475	8,475	287	0	0	0
Total	4,369	2,092	59,806	59,806	6,150	0	0	1,283

Table 10. Clifton Court Forebay

Daily Operation of Gates

May 2010

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1		08:37	22:53								1,377
2		07:30									1,375
3	01:19	08:30	10:30	14:20							1,370
4	01:28	09:30									1,371
5	01:00	10:00									1,407
6	00:01	09:54									1,363
7	00:01	13:00									1,375
8	00:01	13:02									1,386
9	00:30	10:45	13:45	14:15							1,378
10	00:05	01:57	05:15	11:15	14:15	15:10	19:30	23:40			1,375
11	00:02	02:45	05:20	12:00	15:00	16:55					1,351
12	00:35	03:30	06:08	12:30	15:30	17:05					1,373
13	04:00	06:34	11:45	23:46							1,374
14		04:45	07:17	10:53	21:25	23:05					1,375
15											-4
16											-22
17	00:05	06:00	09:52	12:11							1,369
18	00:05	08:19									1,376
19	00:01	05:00	07:30	09:00	12:48	15:48					981
20											41
21											58
22	00:01	05:40									1,375
23	00:01	06:26	20:27	21:50							1,288
24	00:01	01:30	04:30	10:00	20:18	22:36					1,354
25	01:35	02:15	05:15	11:20	19:36	21:09					1,342
26	00:01	03:15	06:00	08:55	16:05	19:38					3,959
27	00:01	04:00	06:55	07:20							3,956
28	00:01	04:45	07:30	13:00	18:09						5,935
29		05:30	08:00	13:30	17:46						6,917
30		06:15	19:30	22:35							6,876
31	00:15	07:00	09:15	15:45	18:45	22:45					6,936
Total inflow for the month in AF:											62,987

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Local Other	Article 56C	Other	
	No.	Structure	Mile								
1A			1.83	Byron-Bethany I.D.	4,951			4,951			
1	1	Banks Pumping Plant	3.32		59,806			33			
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	6,150						
		Check No. 1	5.95								
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0						
	2	Check No. 2	12.01								
			12.47	Musco Olive	33						
		Check No. 3	18.29								
	3		22.16	Tracy Golf & Country Club	0						
		Check No. 4	23.99								
		Check No. 5	29.73								
		Check No. 6	34.24								
2A	4		35.22	Turlock Fruit Company Inflow	0			44			
		Check No. 7	39.91								
	5		42.46	Oak Flat Water District-A	44		104	103	100	160	
			42.9	Western Hills WD	104						
			43.81	Oak Flat Water District-B	103						
			44.64	Oak Flat Water District-C	100						
		Check No. 8	45.97								
	6		46.18	Oak Flat Water District-D	160		407	0	0	0	
				Oak Flat Totals:	407						
2B	7							40			
			51.3								
	8	Check No. 9	56.86								
	9	Check No. 10	61.4								
	10	Check No. 11	66.14	Veteran's Cemetery	40						
	11	Check No. 12	66.71		49,365						

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Local	Article 56C	Article 14B	Other	Recreation	
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	6,150	3	12	500	555			
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	3							
		Check No. 1	3.91									
	2	Check No. 2	5.21									
			7.21	Zone 7 Water Agency Altamont	12							
		Check No. 3	9.49	Zone 7 Water Agency Patterson Storage Exchange Project Water	0 1,055							
2	3	Check No. 4	10.68			25	13	11	501			
		Check No. 5	12.29									
	6		13.55	Zone 7 Water Agency Wente #1	25							
			14.16	Zone 7 Water Agency Wente #2	13							
			14.31	Zone 7 Water Agency Ising	11							
		Check No. 6	14.65									
	7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water	501	28	46	284	26	331	1,158	
		Check No. 7	16.38									
	8	Del Valle Branch Pipeline Junction	16.57	Zone 7 Water Agency Wente #3	0							
			16.63	Zone 7 Water Agency Wente #4	28							
			16.69	Zone 7 Water Agency Norman Nursery	0							
			16.70	Zone 7 Water Agency Concannon Project Water	46							
				Pumped into Lake Del Valle	0							
		Deliveries through Del Valle Branch Pipeline		Pumped into South Bay Aqueduct	0	284	331	1,158	1,746	2,127	16	
				Gravity into South Bay Aqueduct	1,283							
				Zone 7 Water Agency Arroyo Valle #1 & #2 Project Water	0							
5	6	La Costa Tunnel		Storage Exchange	0	26	57	1,746	2,127			
				Inflow Release	284							
				East Bay Regional Park Dist.								
				Del Valle Recreation	16							
				Zone 7 Water Agency Wente #5	26							
7	7	Mission Tunnel	19.20	Zone 7 Water Agency So. Livermore Project Storage Exchange Project Water	331 1,158	26	57	1,746	2,127			
			19.21	Zone 7 - Kalthrof Detjens	57							
			22.50	ACWD - Vallecitos Project Water	0							
			25.97	City of San Francisco San Antonio	0							
8	8	Santa Clara Pipeline	28.97	ACWD - Bayside 1 & 2 Project Water Storage Exchange	1,746 0	26	57	1,746	2,127			
			35.86	S.C.V.W.D. Meter	2,127							

Table 13. Lake Del Valle
Daily Operation

Capacity: 77,106 ac-ft

May 2010

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Apr 30	704.71	41,135									
1	704.73	41,150	14	26	0	3	0	1	7	11	0.00
2	704.76	41,171	22	34	0	3	0	1	8	12	0.00
3	704.77	41,179	7	23	0	3	0	1	12	16	0.00
4	704.78	41,186	7	21	0	1	0	1	12	14	0.00
5	704.81	41,208	22	34	0	0	0	1	11	12	0.00
6	704.82	41,215	7	17	0	0	0	1	9	10	0.00
7	704.80	41,200	-14	-2	0	0	0	1	11	12	0.00
8	704.81	41,208	7	18	0	0	0	1	10	11	0.00
9	704.83	41,222	14	24	0	0	0	1	8	9	0.00
10	704.84	41,229	7	23	0	0	10	1	5	16	0.15
11	704.81	41,208	-22	33	0	0	50	1	4	55	0.14
12	704.74	41,157	-51	17	0	0	59	1	8	68	0.00
13	704.68	41,114	-43	36	0	0	66	1	12	79	0.00
14	704.60	41,056	-58	21	0	0	71	1	7	79	0.00
15	704.53	41,006	-50	19	0	0	59	1	9	69	0.00
16	704.46	40,955	-50	20	0	0	59	1	10	70	0.00
17	704.37	40,891	-65	16	0	0	72	0	8	80	0.00
18	704.25	40,805	-86	15	0	0	98	0	3	101	0.00
19	704.11	40,704	-100	21	0	0	114	0	7	121	0.00
20	703.92	40,568	-136	5	0	0	136	0	5	141	0.02
21	703.71	40,419	-150	12	0	0	156	0	6	162	0.00
22	703.52	40,283	-135	1	0	0	130	0	7	137	0.00
23	703.37	40,177	-107	8	0	0	106	0	9	115	0.00
24	703.27	40,106	-71	11	0	0	72	0	10	82	0.00
25	703.23	40,077	-28	4	0	0	25	0	7	32	0.00
26	703.25	40,091	14	18	0	0	0	0	4	4	0.10
27	703.25	40,091	0	6	0	0	0	0	6	6	0.00
28	703.26	40,098	7	13	0	0	0	0	6	6	0.12
29	703.24	40,084	-14	-9	0	0	0	0	5	5	0.00
30	703.24	40,084	0	13	0	0	0	0	13	13	0.00
31	703.21	40,063	-21	-6	0	0	0	0	15	15	0.00
Total				-1,072	489	0	10	1,283	16	252	1,561
1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.											
2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.											
3/ To East Bay Regional Park District.											
NR=No Records											

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

May 2010

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Apr 30	220.13	43,489											
1	219.47	41,785	-1,704	0	206	1,167	474	0	0	2,779	10	83	
2	219.27	41,272	-513	0	41	2,890	473	75	0	2,253	10	-1,325	
3	218.98	40,533	-739	0	0	1,653	496	421	0	2,425	14	338	
4	219.89	42,867	2,334	0	0	4,194	460	368	0	2,859	14	-236	
5	219.10	40,839	-2,028	0	0	1,824	423	368	0	2,657	14	-230	
6	219.10	40,839	0	0	0	3,483	499	586	0	3,341	14	-41	
7	220.23	43,749	2,910	0	0	3,965	576	620	0	2,625	14	185	
8	219.42	41,656	-2,093	0	0	2,465	708	601	0	3,480	10	-137	
9	219.33	41,426	-230	0	0	3,455	779	616	0	3,438	10	-286	
10	220.59	44,688	3,262	0	0	3,771	384	340	0	2,475	10	315	
11	220.99	45,734	1,046	0	0	4,335	0	354	0	3,186	10	-258	
12	219.66	42,273	-3,461	0	0	2,709	0	621	0	3,856	10	33	
13	220.26	43,827	1,554	0	0	5,051	0	865	0	3,307	12	-84	
14	220.45	44,322	495	0	14	5,523	0	957	0	4,306	12	-12	
15	221.55	47,204	2,882	0	0	5,502	0	499	0	3,610	12	72	
16	222.92	50,833	3,629	0	0	5,469	0	410	0	2,827	12	-390	
17	223.19	51,554	721	0	0	5,437	0	866	0	4,132	12	-64	
18	223.02	51,100	-454	0	0	3,860	0	799	0	3,384	12	106	
19	222.27	49,102	-1,998	0	0	3,860	0	1,010	0	3,801	12	-44	
20	221.17	46,206	-2,896	0	0	3,860	0	582	0	4,806	13	81	
21	220.75	45,106	-1,100	0	0	4,951	0	533	0	4,865	13	-95	
22	221.30	46,547	1,441	0	0	5,099	1,009	1,150	0	4,182	13	-37	
23	222.21	48,942	2,395	0	0	5,073	708	1,033	0	3,798	13	270	
24	223.24	51,687	2,745	0	0	5,057	525	821	0	3,232	13	-132	
25	222.49	49,687	-2,000	0	0	3,812	620	1,416	0	4,025	13	14	
26	222.65	50,113	426	0	0	3,812	2,835	1,360	0	4,886	13	-173	
27	222.82	50,566	453	0	500	3,116	1,133	92	0	4,450	15	36	
28	220.47	44,374	-6,192	0	677		1,750	0	0	5,555	15	#VALUE!	
29	221.67	47,519	3,145	0	967	2,067	3,103	0	0	4,737	15	201	
30	222.28	49,128	1,609	0	1,105		4,097	0	0	4,175	15	#VALUE!	
31	223.14	51,420	2,292	0	831		3,836	0	0	3,574	15	#VALUE!	
Total				7,931	0	4,341	107,460	24,888	17,363	0	113,026	390	#VALUE!
Mean cfs				---	0	140	3,838	803	560	0	3,646	13	#VALUE!
Acre-feet				7,931	0	8,611	213,142	49,365	34,439	0	224,187	774	-3,787

1/ Pump-in located at Mile 79.67R.

2/ Includes 100 AF delivered to DFG at O'Neill Forebay, 2 AF to Parks & Rec., and 763 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

May 2010

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Apr 30	513.80	1,668,806							
1	513.58	1,666,194	-2,612	0	1,167	45	0	-105	
2	513.30	1,662,871	-3,323	0	2,890	43	0	1,258	
3	512.99	1,659,195	-3,676	0	1,653	47	0	-153	
4	512.29	1,650,904	-8,291	0	4,194	46	0	60	
5	511.96	1,647,000	-3,904	0	1,824	85	0	-59	
6	511.35	1,639,793	-7,207	0	3,483	125	0	-25	
7	510.60	1,630,946	-8,847	0	3,965	82	0	-413	
8	510.20	1,626,235	-4,711	0	2,465	197	0	287	
9	509.57	1,618,824	-7,411	0	3,455	224	0	-57	
10	508.90	1,610,955	-7,869	0	3,771	211	0	15	
11	508.15	1,602,162	-8,793	0	4,335	196	0	98	
12	507.65	1,596,310	-5,852	0	2,709	209	0	-32	
13	506.77	1,586,027	-10,283	0	5,051	211	0	78	
14	505.80	1,574,718	-11,309	0	5,523	221	0	42	
15	504.84	1,563,554	-11,164	0	5,502	241	0	115	
16	503.87	1,552,301	-11,253	0	5,469	213	0	9	
17	502.93	1,541,422	-10,879	0	5,437	218	0	170	
18	502.23	1,533,338	-8,084	0	3,860	206	0	-10	
19	501.49	1,524,808	-8,530	0	3,860	215	0	-225	
20	500.79	1,516,753	-8,055	0	3,860	179	0	-22	
21	499.94	1,506,993	-9,760	0	4,951	214	0	244	
22	498.97	1,495,880	-11,113	0	5,099	213	0	-291	
23	498.05	1,485,366	-10,514	0	5,073	204	0	-24	
24	497.13	1,474,878	-10,488	0	5,057	220	0	-11	
25	496.45	1,467,142	-7,736	0	3,812	178	0	90	
26	495.76	1,459,306	-7,836	0	3,812	118	0	-21	
27	495.24	1,453,410	-5,896	0	3,116	158	0	301	
28	495.19	1,452,843	-567	0	0	97	0	-189	
29	494.80	1,448,427	-4,416	0	2,067	106	0	-53	
30	494.77	1,448,088	-339	0	0	102	0	-69	
31	494.73	1,447,635	-453	0	0	119	0	-109	
Total		-221,171		0	107,460	4,943	0	899	
Mean cfs		---		0	3,466	159	0	29	
Acre-feet		-221,171		0	213,142	9,807	0	1,778	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 13,449 AF, Casa De Fruta 0 AF, and San Benito 1,401 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

May 2010

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	5,513	3,095	2,314	740	0	0	90
2	4,468	2,060	5,732	1,408	0	0	85
3	4,809	2,438	3,279	786	0	0	93
4	5,671	3,267	8,318	3,305	0	0	92
5	5,270	2,965	3,618	169	0	0	168
6	6,626	4,260	6,908	2,565	0	0	247
7	5,206	2,782	7,865	2,881	0	0	163
8	6,903	4,408	4,889	1,417	0	0	391
9	6,820	4,378	6,853	3,402	0	0	444
10	4,910	2,433	7,479	3,067	0	0	418
11	6,319	3,860	8,598	4,480	0	0	388
12	7,649	6,416	5,373	3,212	0	0	415
13	6,560	5,341	10,018	8,464	0	0	419
14	8,540	7,332	10,954	8,769	0	0	438
15	7,161	5,943	10,914	8,716	0	0	479
16	5,607	4,357	10,848	8,377	0	0	422
17	8,195	6,946	10,785	7,369	0	0	432
18	6,713	5,454	7,656	2,704	0	0	409
19	7,539	6,293	7,656	4,337	0	0	426
20	9,533	8,284	7,656	5,250	0	0	355
21	9,649	8,404	9,820	6,182	0	0	425
22	8,295	7,062	10,113	7,674	0	0	422
23	7,534	6,306	10,063	7,675	0	0	405
24	6,410	5,156	10,030	5,211	0	0	437
25	7,984	6,731	7,562	5,169	0	0	354
26	9,692	8,461	7,562	5,170	0	0	235
27	8,827	7,578	6,180	3,728	0	0	314
28	11,019	8,565	0	0	0	0	192
29	9,395	6,970	4,099	4,099	0	0	210
30	8,281	5,813	0	0	0	0	202
31	7,089	4,599	0	0	0	0	237
Total	224,187	167,957	213,142	126,326	0	0	9,807

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
May 2010

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Apr 30	330.30	21,767					
1	330.33	21,782	15	8	0	0	-1
2	330.33	21,782	0	0	0	0	0
3	330.34	21,787	5	3	0	0	-1
4	330.35	21,792	5	3	0	0	-1
5	330.34	21,787	-5	0	0	0	-5
6	330.33	21,782	-5	0	0	0	-5
7	330.33	21,782	0	0	0	0	0
8	330.32	21,777	-5	0	0	0	-5
9	330.30	21,767	-10	0	0	0	-10
10	330.31	21,772	5	3	0	0	-1
11	330.32	21,777	5	3	0	0	-1
12	330.33	21,782	5	3	0	0	-1
13	330.33	21,782	0	0	0	0	0
14	330.32	21,777	-5	0	0	0	-5
15	330.32	21,777	0	0	0	0	0
16	330.31	21,772	-5	0	0	0	-5
17	330.29	21,763	-9	0	0	0	-9
18	330.28	21,758	-5	0	0	0	-5
19	330.27	21,753	-5	0	0	0	-5
20	330.26	21,748	-5	0	0	0	-5
21	330.22	21,729	-19	0	0	0	-19
22	330.20	21,719	-10	0	0	0	-10
23	330.20	21,719	0	0	0	0	0
24	330.17	21,705	-14	0	0	0	-14
25	330.17	21,705	0	0	0	0	0
26	330.18	21,709	4	2	0	0	0
27	330.17	21,705	-4	0	0	0	-4
28	330.17	21,705	0	0	0	0	0
29	330.16	21,700	-5	0	0	0	-5
30	330.16	21,700	0	0	0	0	0
31	330.15	21,695	-5	0	0	0	-5
Total			-72	25	0	0	-122
Mean cfs			---	1	0	0	---
Acre-feet			-72	50	0	0	-122

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

May 2010

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Apr 30	601.10	741					
1	Not Observed						
2	Not Observed						
3	Not Observed						
4	Not Observed						
5	Not Observed						
6	Not Observed						
7	601.10	741	0	0	0	0	0
8	Not Observed						
9	Not Observed						
10	600.80	725	-16	0	0	0	-16
11	Not Observed						
12	Not Observed						
13	Not Observed						
14	Not Observed						
15	Not Observed						
16	Not Observed						
17	Not Observed						
18	Not Observed						
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	Not Observed						
23	Not Observed						
24	600.70	720	-5	0	0	0	-5
25	Not Observed						
26	Not Observed						
27	Not Observed						
28	600.80	725	5	3	0	0	-1
29	Not Observed						
30	Not Observed						
31	600.70	720	-5	0	0	0	-5
Total			-21	3	0	0	-27
Mean cfs			---	1	0	0	---
Acre-feet			-21	6	0	0	-27

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

May 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		49,365						
3A		San Luis Reservoir		Department of Parks and Recreation	0	8,782	1,025	0	0		
				San Felipe Division Santa Clara Water District	8,782						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	1,025						
				Reach 3A Subtotal:	9,807						
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	0	9,807	0	0	0		
				Cattle Program	1						
				Department of Fish & Game	28						
		Thru	70.91	San Luis Water District	745	745	0	15	13		
			85.08	(Floodwater Inflow)	0						
				Reach 3 Subtotal:	774						
		Dos Amigos Pumping Plant	86.73		224,187						
4	14		89.03	San Luis Water District	6,905	6,905	1,155	51	111		
			Thru 94.06								
			89.66	Pacheco Water District	1,155						
			Thru 89.67								
			89.68	Panoche Water District	51						
		Check No. 14	89.70	City of Dos Palos	111						
			95.06								
	15		98.15	San Luis Water District	1,360	1,360	3,579	0	0		
			Thru 104.20								
			96.15	Panoche Water District	3,579						
		Thru	102.64	(Floodwater Inflow)	0	8,550	0	0	0		
			102.64	Broadview Water District	0						
			105.22	Westlands Water District	8,550						
		Check No. 15	108.64								
			108.50	Reach 4 Subtotal:	21,711	21,711	0	0	0		
				San Felipe Division Total:	9,807	9,807	0	0	0		
				Pacheco Water District Total:	1,155	1,155	0	0	0		
				Broadview Water District Total:	0	0	0	0	0		
				City of Dos Palos Total:	111	111	0	0	0		
				SLWD Reach 4 Subtotal:	8,265	8,265	0	0	0		
				Panoche Water District Total:	3,630	3,630	0	0	0		
				SLWD Total:	9,010	9,010	0	0	0		
				Westlands WD Reach 4 Subtotal:	8,550	8,550	0	0	0		

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure											
5	16		110.52	(Reverse flow, Kings River)	0	12,204	14						
				Westlands Water District	12,204								
			Thru	Dept. of Fish and Game @ Lat. 4L	0								
			122.05	Dept. of Fish and Game @ Lat. 6L	0								
				Dept. of Fish and Game @ Lat. 7L	0								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	8,211	8,211							
			Thru										
	18		132.74										
			Check No. 17	132.95									
			133.81	Westlands Water District	10,785	10,785							
			Thru										
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	10,195	10,195							
			143.16	City of Coalinga	386	386							
		Check No. 18	143.23										
				Reach 5 Subtotal:	41,795	41,795	0	0	0				
6	19		145.26	GWF Energy	0	2	43						
				City of Huron	2								
				DWR Water Truck @22R	43								
				Kings County to Lemoore NAS Through WWD	244								
				Kings County through WWD 30L	0								
				Westlands Water District	13,842	13,842	1 / 244						
				Check No. 19	155.64								
				Reach 6 Subtotal:	14,131	13,844	287	0	0				
7	20		156.34	City of Huron	90	90							
			156.40	SWP Construction @ Lat. 24R	0								
			Thru	Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	6,176								
		163.69		Westlands Water District	0								
		Check No. 20	164.69										
	21		164.79	City of Avenal	204	6,176	204						
			167.04	Westlands Water District	3,256								
			171.67										
		Check No. 21	172.40		121,915	2,256	2 / 1,000						
				Reach 7 Total:	9,726	8,726	1,000	0	0				
				SWP Construction Total:	0	0	0	0	0				
				Westlands WD Total:	67,043	66,043	1,000	0	0				
				City of Coalinga Total:	386	386	0	0	0				
				City of Huron Total:	92	92	0	0	0				
				Kings County to Lemoore NAS Through WWD	244	0	244	0	0				
				City of Avenal Total:	204	204	0	0	0				
Total San Luis Field Division Deliveries:					97,944	96,628	1,287	16	13				

1/ From County of Kings to Westlands Water District.

2/ Same land owner transfer (Hansen/Newton) from Tulare Lake Basin WSD to Westlands Water District.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

May 2010

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Apr 30	27,697								
1	28,374	677	0	2,779	125	33	707	1,358	-214
2	27,836	-538	0	2,253	125	33	707	1,792	133
3	28,443	607	0	2,425	125	33	707	1,141	-113
4	27,669	-774	0	2,859	125	33	707	1,979	-405
5	27,929	260	0	2,657	125	56	707	1,143	-494
6	27,645	-284	0	3,341	125	56	1,079	1,976	-248
7	27,120	-525	0	2,625	125	56	1,079	1,410	-220
8	27,381	261	0	3,480	125	56	1,079	1,727	-361
9	27,909	528	0	3,438	160	56	1,079	1,877	1
10	27,558	-351	0	2,475	165	56	1,079	1,403	51
11	27,148	-410	0	3,186	165	56	1,079	1,856	-237
12	27,922	774	0	3,856	165	62	1,079	1,642	-518
13	27,144	-778	0	3,307	169	62	1,202	1,905	-362
14	28,019	875	0	4,306	169	62	1,202	1,923	-508
15	28,045	26	0	3,610	169	62	1,202	1,902	-262
16	27,718	-327	0	2,827	169	62	1,202	1,647	88
17	28,591	873	0	4,132	169	62	1,202	2,193	-66
18	28,030	-561	0	3,384	169	62	1,202	2,050	-184
19	27,914	-116	0	3,801	169	66	1,202	2,065	-357
20	27,425	-489	0	4,806	161	66	1,471	3,203	-152
21	28,107	682	0	4,865	161	66	1,471	2,725	-98
22	28,161	54	0	4,182	161	66	1,471	2,507	50
23	28,789	628	0	3,798	161	66	1,471	2,150	367
24	27,882	-907	0	3,232	161	66	1,471	2,120	129
25	27,353	-529	0	4,025	161	66	1,471	2,350	-244
26	28,225	872	0	4,886	161	63	1,487	1,383	-1,352
27	27,843	-382	0	4,450	168	63	1,519	1,944	-949
28	28,551	708	0	5,555	168	65	1,519	2,785	-661
29	28,214	-337	0	4,737	168	73	1,519	3,079	-67
30	28,736	522	0	4,175	168	73	1,519	2,358	206
31	28,675	-61	0	3,574	168	73	1,519	1,869	25
Total		978	0	113,026	4,805	1,830	37,410	61,465	-7,022
Mean cfs		---	0	3,646	155	59	1,207	1,983	-227
Acre-feet		978	0	224,187	9,531	3,630	74,202	121,915	-13,931

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 1,155 AF to Pacheco W.D., 111 AF to the City of Dos Palos and 8,265 AF to San Luis Water District.

3/ Includes 90 AF to the City of Huron, 204 AF to the City of Avenal, 386 AF to the City of Coalinga, 2 AF to City of Huron P&R @ 22R, 244 AF to Lemoore N.A.S. @ 29L, 0 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 4L, 0 AF to DFG @ 4L, 0 AF to Pilipos Wildlife @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 43 AF to DWR Water Truck @ 22R, 14 AF to DFG @ 7L, 0 AF Non-Project Water, 63,024 AF to Westlands Water District and 10,195 AF to Pleasant Valley Pumping Plant.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

May 2010

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	466	625	36	33	40	2,410	2,498	2,423	2,468
2	489	484	67	62	68	2,309	2,714	2,670	2,613
3	350	347	27	24	29	2,125	2,832	2,747	2,702
4	367	369	47	43	48	3,455	3,110	2,919	2,850
5	419	407	60	56	59	2,886	2,943	2,810	2,710
6	387	386	41	37	41	3,150	2,922	2,750	2,619
7	393	394	64	58	64	2,867	2,739	2,542	2,479
8	505	525	54	50	55	2,654	2,723	2,516	2,580
9	458	472	66	61	67	3,429	3,638	3,524	3,529
10	240	253	26	23	28	2,540	2,717	2,570	2,580
11	464	461	62	59	62	3,428	3,203	2,834	2,683
12	421	411	56	51	56	2,946	2,709	2,555	2,591
13	416	418	69	62	69	3,143	2,735	2,514	2,425
14	464	450	56	52	58	3,564	3,191	2,967	2,847
15	579	546	58	52	59	2,980	2,942	2,776	2,732
16	534	510	51	46	53	2,766	3,173	2,039	3,030
17	432	404	57	51	58	3,607	3,707	3,597	3,465
18	412	405	43	39	46	2,236	3,626	3,455	3,416
19	504	498	61	56	62	3,523	3,135	2,921	2,815
20	498	492	75	68	76	4,087	3,530	3,377	3,156
21	371	362	51	46	52	3,740	3,691	3,499	3,473
22	249	206	50	46	52	3,679	3,670	3,538	3,586
23	346	308	78	70	81	4,397	5,021	4,842	4,724
24	264	246	61	56	62	3,949	4,062	3,880	3,854
25	411	392	71	65	74	3,060	3,198	2,975	2,989
26	451	431	82	74	82	3,637	3,373	3,221	3,156
27	503	508	68	64	72	3,016	3,265	3,110	2,957
28	477	485	80	72	79	4,360	4,009	3,710	3,688
29	601	573	105	94	106	4,458	4,497	4,223	4,099
30	463	426	73	66	74	4,002	4,120	3,968	3,943
31	346	360	57	53	60	3,264	3,503	3,365	3,317
Total	13,279	13,155	1,852	1,689	1,892	101,668	103,195	96,837	96,075

Table 22. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

May 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Pump Recovery	Recovery	Carryover Article 56C		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		121,915							
8C	22			Empire West Side ID TL - A	956					956		
				172.66	0					28		
				Tulare Lake Basin WSD TL-A	28							
				175.18	Dudley Ridge WD - 1					1/ 97		
				177.54	Dudley Ridge WD - 1B					1/ 162		
				180.64	Tulare Lake Basin WSD - C					1/ 207		
				180.65	Dudley Ridge WD - 1A					1/ 1,030		
				182.99	Dudley Ridge WD - 2							
				183.00	Tulare Lake Basin WSD TL - B							
					County of Kings TL-B							
8D				184.00	Dudley Ridge WD - Paramount							
				184.63	Coastal Branch	13,279				1/ 1,518		
31A				184.78	Dudley Ridge WD - 3	1,518						
					Dudley Ridge Reach 8D Total:	3,014	0	0	3,014	0		
8D					Tulare Lake Basin WSD Total:	28	0	0	0	28		
				Check No. 22	184.82							
9	23			189.69	Kern County Water Agency Lost Hills Water Dist. - 1	6,583			6,583			
				191.18	Kern County Water Agency Lost Hills Water Dist. - 2	844			844			
				194.22	Kern County Water Agency Lost Hills Water Dist. - 3	340			340			
				196.40	Kern County Water Agency Berrenda Mesa - 2	554			554			
				196.75	Kern County Water Agency Lost Hills Water Dist. - 4	1,188			1,188			
					KCWA Reach 9 Subtotal:	9,509	0	0	9,509	0		
				Check No. 23	197.05							
10A	24			201.24	Kern County Water Agency Lost Hills Water Dist. - 7	1,442			1,442			
				202.05	Kern County Water Agency Lost Hills Water Dist. - 5	1,058			1,058			
				204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0			2			
				205.26	Kern County Water Agency Lost Hills Water Dist. - 8	2						
				Check No. 24	207.94							
10A	25			209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	2,587			2,587			
				209.78	Kern National Wildlife Refuge USBR BV-1B	290			290			
					Kern County Water Agency Buena Vista WSD 1B	341			341			
				209.80	KCWA Semitropic WSD	5,315				2/ 5,315		
					KCWA Semitropic WSD Penstocks	0						
					USBR Total:	290	0	290	0	0		
					KCWA Reach 10A Subtotal:	10,745	0	0	5,430	5,315		

1/ Kern Water Bank Recovery.

2/ Recovery of water that was pumped in and stored in O'Neill.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Pump Recovery	Recovery	Carryover Article 56C		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0			516	2/ 10,523			
			214.11	Kern County Water Agency Belridge - 3	516							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	12,819							
				Kern County Water Agency Belridge - 5D	98							
		Check No. 25	217.79									
				KCWA Reach 11B Subtotal:	13,433	0	0	2,812	10,621	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	145		516	2/ 98			
				Kern County Water Agency West Kern - 3	145							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	1,345	727	618	2,812	10,621			
				Check No. 27	231.73							
	28		235.75	Kern County Water Agency Buena Vista - 2	2,200							
				Kern County WA CVC	0							
				DRWD CVC	0							
				Tulare Co.	0							
				Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda								
				DWR Wells	0							
	Check No. 28	238.11										
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	3,545	2,927	0	618	0	0		
13B	29		238.19	Kern Water Bank Inflow	0	1,132		2,812	10,621			
				Kern Water Bank Outflow	0							
				Kern River Intertie (inflow)	0							
				241.02	KCWA Buena Vista WSD - 7							
				242.85	KCWA Buena Vista WSD - 5							
				243.09	Kern County Water Agency Buena Vista - 3							
				Check No. 29	244.54							
	30		249.85	Kern County Water Agency Buena Vista - 4	0							
				Buena Vista Pumping Plant	250.99							
				KCWA Reach 13B Subtotal:	1,132	1,132	0	0	0	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0	449		2,812	10,621			
				Kern County Water Agency Wheeler Ridge-Maricopa - 2	449							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Recovery of water that was pumped in and stored in O'Neill.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile	Table A	USBR	Pump Recovery	Recovery	Carryover Article 56C
	No.	Structure								
14A	31	Check No. 31	256.14							
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	879	879	1,802			
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	1,802					
		Check No. 32	261.72							
				KCWA Reach 14A Subtotal:	3,130	3,130	0	0	0	0
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	3,339	3,339	578	114		
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	692					
	34	Check No. 33	267.36							
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	2,880	2,880				
		Check No. 34	271.27							
				Reach 14B Total:	6,911	6,797	0	114	0	0
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	2,209	1,207	1,415	1,002		
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	1,415					
			277.30	Kern County Water Agency Arvin-Edison WSD	0	2,622		1,002	0	0
				Reach 14C Total:	3,624					
	Teerink Pumping Plant	278.13			103,195					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	657	499	1,618	158		
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	1,618					
				Reach 15A Total:	2,275	2,117		158	0	0
	Chrismen Pumping Plant	280.36			96,837					
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0					
		Check No. 37	283.95							
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	34	34	74			
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	74					
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0	148				
		Check No. 38	287.09							
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	148	1,047	122			
		Check No. 39	290.21							
17E	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	1,047	1,047	1,034			
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	122					
				Kern County Water Agency Tehachapi Cummings CWD	1,034	2,459				
				KCWA Reach 16A Subtotal:	2,459					
	Edmonston Pumping Plant	293.45			96,075					

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

May 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Pump Recovery	Recovery	Carryover Article 56C	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		13,279	815	10,408				
		Las Perillas Pumping Plant	1.16		13,279						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		13,155						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0						
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	815						
			14.83	Kern County Water Agency Berrenda Mesa - 1	10,408						
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		1,852						
				KCWA Reach 31A Subtotal:	11,223	11,223	0	0	0	0	
				KCWA Total:	68,131	32,552	0	19,643	15,936	0	
33A	C-7	Bluestone Pumping Plant	19.05		1,689	368				1,508	
	C-8	Polonio Pass Pumping Plant	26.54		1,892						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0						
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,508						
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	368						
		Energy Dissipater	78.12								
	Lopez T.O.	85.86		SLOCFC & WCD	0						
				CCWA Total:	1,876	368	0	0	0	1,508	
35	C-12	Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
				SBCFC & WCD Total:	0	0	0	0	0	0	
38		Tank Site 5	115.42								

Table 24. Southern Field Division Plant Data

(in acre-feet)

May 2010

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Tehachapi Afterbay Bypass		Generation	Leakage	Bypass Flume				
1	628	530	0	0	159	0	1,750	0	99	1,715	1,662	0	0	1,832	0	0	9
2	831	532	0	0	1,094	0	1,630	0	149	1,858	1,718	0	0	1,631	27	27	9
3	265	535	0	0	1,672	833	2,129	0	0	1,654	1,759	0	0	1,774	54	54	16
4	794	539	0	0	2,856	0	2,252	0	0	1,972	1,863	0	0	1,825	38	38	29
5	703	541	0	0	1,252	0	1,952	0	0	1,738	1,727	0	0	1,896	38	38	27
6	707	535	0	0	95	1,258	1,915	0	0	1,669	1,719	0	0	1,721	39	38	17
7	636	529	0	0	343	0	1,784	0	149	1,668	1,760	0	0	1,622	15	14	17
8	522	536	0	0	468	0	1,805	0	157	1,590	1,553	0	0	1,553	0	0	16
9	914	537	0	0	188	0	2,345	0	0	2,204	2,075	0	0	1,481	22	19	15
10	778	537	0	0	244	23	1,913	0	0	1,849	1,767	0	0	1,793	39	38	16
11	520	539	0	0	183	960	2,163	0	0	1,818	1,722	0	0	1,728	38	38	29
12	520	530	0	0	863	0	1,907	0	0	1,690	1,707	0	107	1,557	0	0	0
13	514	533	0	0	2,706	0	1,739	0	99	1,732	1,548	0	0	1,874	45	35	16
14	522	530	0	0	1,248	768	2,215	0	99	1,930	1,692	0	0	1,805	27	20	16
15	522	538	0	0	278	0	2,160	0	0	1,853	1,862	0	0	1,604	0	0	15
16	522	543	0	0	982	1,386	1,409	0	810	2,165	2,087	0	0	2,066	33	27	15
17	1,031	1,022	0	0	472	634	2,420	0	66	2,384	2,523	0	0	2,315	41	40	20
18	1,172	889	0	0	2,886	0	2,050	0	256	2,459	2,317	0	0	2,232	41	40	29
19	634	1,023	0	0	1,493	0	1,684	0	198	1,796	1,803	0	0	2,473	41	41	30
20	626	1,024	0	0	2,109	1,190	1,990	0	248	1,674	1,853	0	0	2,157	54	51	25
21	1,014	1,021	0	0	195	1,337	1,840	0	331	2,296	1,897	0	0	2,242	55	54	27
22	856	1,024	0	0	512	0	1,634	0	860	2,182	2,254	0	0	2,138	28	28	29
23	1,545	1,020	0	0	349	0	2,716	0	231	2,772	2,726	0	0	1,488	28	28	26
24	1,178	1,018	0	0	2,003	0	2,203	0	264	2,443	2,447	0	0	2,516	54	54	25
25	1,208	1,015	0	0	302	0	1,986	0	0	1,664	1,900	0	0	2,195	51	51	32
26	943	1,014	0	0	2,756	0	2,126	0	0	2,057	1,884	0	0	2,175	52	51	32
27	879	1,014	0	0	1,996	842	1,580	0	0	1,790	1,738	0	0	2,217	55	54	29
28	1,049	1,012	0	0	1,145	0	2,670	0	0	2,119	2,119	0	0	2,279	42	41	16
29	944	1,013	0	0	218	0	2,679	0	281	2,866	2,656	0	0	2,279	41	40	33
30	1,037	1,019	0	0	546	1,147	2,197	0	232	2,716	2,744	0	0	1,969	42	41	29
31	1,044	1,018	0	0	105	0	1,120	0	174	2,279	2,261	0	0	2,083	41	41	28
Total	25,058	23,710	0	0	31,718	10,378	61,963	0	4,703	62,602	61,343	0	107	60,520	1,081	1,041	672

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

May 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow				Computed Losses (-) And Gains (+)		
				Project		Natural	Project		To Piru Creek				
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Apr 30	2576.97	168,575											
1	2577.29	168,986	411	0	530	0	69	159	0	79	0	50	
2	2576.49	167,959	-1,027	0	532	0	63	1,094	0	69	0	-459	
3	2576.49	167,959	0	833	535	0	61	1,672	0	69	0	312	
4	2574.64	165,599	-2,360	0	539	0	59	2,856	0	63	0	-39	
5	2574.08	164,890	-709	0	541	0	54	1,252	0	60	0	8	
6	2574.64	165,598	708	1,258	535	0	49	95	0	58	0	-981	
7	2575.49	166,681	1,083	0	529	0	47	343	1	56	0	907	
8	2575.46	166,643	-38	0	536	0	45	468	0	56	0	-95	
9	2575.70	166,949	306	0	537	0	47	188	0	52	0	-38	
10	2575.81	167,089	140	23	537	0	48	244	0	52	0	-172	
11	2576.97	168,575	1,486	960	539	0	46	183	0	52	0	176	
12	2576.67	168,190	-385	0	530	0	46	863	0	52	0	-46	
13	2574.96	166,006	-2,184	0	533	0	43	2,706	0	52	0	-2	
14	2574.99	166,044	38	768	530	0	41	1,248	0	50	0	-3	
15	2575.16	166,260	216	0	538	0	41	278	0	50	0	-35	
16	2575.93	167,242	982	1,386	543	0	36	982	0	50	0	49	
17	2576.80	168,357	1,115	634	1,022	0	37	472	0	50	0	-56	
18	2575.16	166,260	-2,097	0	889	0	41	2,886	1	50	0	-90	
19	2574.88	165,904	-356	0	1,023	0	41	1,493	0	50	0	123	
20	2574.84	165,853	-51	1,190	1,024	0	38	2,109	0	50	0	-144	
21	2576.49	167,959	2,106	1,337	1,021	0	35	195	0	50	0	-42	
22	2576.82	168,382	423	0	1,024	0	35	512	0	48	0	-76	
23	2577.36	169,076	694	0	1,020	0	36	349	0	46	0	33	
24	2576.54	168,023	-1,053	0	1,018	0	36	2,003	0	49	0	-55	
25	2577.59	169,372	1,349	0	1,015	0	35	302	0	45	0	646	
26	2575.68	166,923	-2,449	0	1,014	0	35	2,756	1	43	0	-698	
27	2575.58	166,796	-127	842	1,014	0	36	1,996	0	41	0	18	
28	2575.47	166,655	-141	0	1,012	0	36	1,145	0	41	0	-3	
29	2576.05	167,396	741	0	1,013	0	34	218	0	41	0	-47	
30	2577.32	169,025	1,629	1,147	1,019	0	31	546	0	41	0	19	
31	2578.02	169,927	902	0	1,018	0	30	105	0	41	0	0	
Total				1,352	10,378	23,710	0	1,331	31,718	3	1,606	0	-740

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

May 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Apr 30	1508.00	18,423								
1	1508.44	18,589	166	159	6	0	6	0	7	
2	1511.13	19,623	1,034	1,094	6	0	6	0	-60	
3	1513.23	20,449	826	1,672	5	833	5	0	-13	
4	1513.74	20,652	203	2,856	5	0	5	2,640	-13	
5	1511.23	19,661	-991	1,252	5	0	5	2,086	-157	
6	1508.52	18,620	-1,041	95	5	1,258	5	0	122	
7	1509.49	18,989	369	343	4	0	4	0	26	
8	1510.73	19,467	478	468	4	0	4	0	10	
9	1511.23	19,661	194	188	4	0	4	0	6	
10	1512.00	19,961	300	244	5	23	5	0	79	
11	1505.66	17,552	-2,409	183	5	960	5	0	-1,632	
12	1502.08	16,258	-1,294	863	4	0	4	2,101	-56	
13	1509.36	18,939	2,681	2,706	4	0	4	0	-25	
14	1510.68	19,447	508	1,248	4	768	4	0	28	
15	1511.28	19,680	233	278	3	0	3	0	-45	
16	1510.38	19,331	-349	982	3	1,386	3	0	55	
17	1509.87	19,134	-197	472	4	634	4	0	-35	
18	1513.06	20,381	1,247	2,886	4	0	4	1,618	-21	
19	1512.44	20,135	-246	1,493	4	0	4	1,724	-15	
20	1512.84	20,294	159	2,109	3	1,190	3	774	14	
21	1505.40	17,456	-2,838	195	3	1,337	3	1,670	-26	
22	1506.76	17,958	502	512	3	0	3	0	-10	
23	1507.66	18,295	337	349	3	0	3	0	-12	
24	1512.69	20,234	1,939	2,003	3	0	3	0	-64	
25	1512.18	20,033	-201	302	3	0	3	495	-8	
26	1509.47	18,981	-1,052	2,756	3	0	3	3,807	-1	
27	1507.69	18,306	-675	1,996	2	842	2	1,824	-5	
28	1510.55	19,396	1,090	1,145	2	0	2	0	-55	
29	1511.01	19,575	179	218	2	0	2	0	-39	
30	1509.61	19,034	-541	546	2	1,147	2	0	60	
31	1509.79	19,104	70	105	2	0	2	0	-35	
Total				681	31,718	115	10,378	115	18,739	
									-1,920	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

May 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Apr 30	1484.61	259,891								
1	1484.02	258,730	-1,161	6	0	17	942	175	-67	
2	1484.02	258,729	-1	6	0	13	986	175	1,141	
3	1482.82	256,377	-2,352	5	0	12	1,064	173	-1,132	
4	1483.61	257,925	1,548	5	2,640	12	1,216	173	280	
5	1483.61	257,911	-14	5	2,086	11	2,428	171	483	
6	1483.61	257,907	-4	5	0	10	1,172	157	1,310	
7	1483.61	257,907	0	4	0	10	1,217	0	1,203	
8	1483.58	257,853	-54	4	0	10	1,343	0	1,275	
9	1483.57	257,842	-10	4	0	11	1,242	0	1,217	
10	1483.57	257,841	-2	5	0	13	1,236	0	1,217	
11	1480.74	252,326	-5,515	5	0	14	1,257	0	-4,277	
12	1481.14	253,103	777	4	2,101	13	1,151	0	-190	
13	1480.50	251,861	-1,241	4	0	11	1,187	0	-69	
14	1479.86	250,623	-1,238	4	0	10	1,113	0	-139	
15	1479.45	249,832	-791	3	0	8	1,068	0	266	
16	1478.85	248,676	-1,156	3	0	8	1,063	0	-104	
17	1478.26	247,542	-1,134	4	0	10	1,068	0	-80	
18	1478.57	248,138	595	4	1,618	13	1,005	0	-35	
19	1478.89	248,753	615	4	1,724	12	924	0	-201	
20	1478.85	248,676	-77	3	774	8	886	0	24	
21	1479.17	249,292	616	3	1,670	7	951	0	-113	
22	1478.58	248,157	-1,135	3	0	6	998	0	-146	
23	1478.09	247,216	-941	3	0	6	987	0	37	
24	1477.66	246,392	-824	3	0	7	814	0	-20	
25	1477.53	246,144	-249	3	495	7	889	0	135	
26	1479.01	248,984	2,840	3	3,807	6	933	0	-43	
27	1479.50	249,928	944	2	1,824	9	835	0	-56	
28	1479.13	249,206	-723	2	0	9	704	0	-30	
29	1478.77	248,522	-684	2	0	7	733	0	40	
30	1478.38	247,773	-749	2	0	6	726	0	-31	
31	1477.98	247,005	-767	2	0	5	742	0	-32	
Total				-12,886	115	18,739	301	32,880	1,024	1,863

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

May 2010

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Recovery	Local	Article 56C	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		25,058							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	28,719	24	3/ 861	924	2,102	4/ 250	
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07	(No flow through Gorman Creek Imp. Channel)	23,710							
29H	W3	Pyramid Lake		USFS		28,719	24	3/ 861	924	2,102	4/ 250	
				Pyramid Recreation (T300)	3							
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0							
29J	W4	Castaic Power Plant	25.82	(10,378 AF pumpback) 2/	31,718	28,719	24	3/ 861	924	2,102	4/ 250	
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park		28,719	24	3/ 861	924	2,102	4/ 250	
		Castaic Dam	31.47	Castaic Lake Recreation (T301)	24							
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	29,580							
				Castaic Lake WA 18", 24" & 54" (T303)	1,174							
				Castaic Lake WA Rio Vista T.P. (T304)	2,102							
				MWD-Ventura Co. WPD (T302)	0							
				Releases to Lagoon	1,024							
				Reach 30 Subtotal:	32,880							
		Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
		Castaic Lagoon Outlet	31.87		186							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

3/ Kern-Delta Water Bank Recovery Exchange.

4/ Transfer water to Castaic from Buena Vista/Rosedale - Rio Bravo.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

May 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project		Del. To Mojave W.A.	Natural To Mojave River				
Apr 30	3350.73	70,865												
1	3350.73	70,865	0	1,662	0	56	0	0	1,832	0	81	195	37	
2	3350.70	70,828	-37	1,718	0	71	0	0	1,631	0	0	-195	37	
3	3350.75	70,884	56	1,759	0	65	0	0	1,774	0	0	6	37	
4	3351.01	71,131	247	1,863	0	60	1	1	1,825	0	0	151	37	
5	3350.98	71,094	-37	1,727	0	56	1	0	1,896	0	0	77	37	
6	3350.93	71,054	-40	1,719	0	54	1	0	1,721	0	0	-91	37	
7	3350.90	71,018	-36	1,760	0	52	0	0	1,622	0	0	-226	37	
8	3350.86	70,979	-39	1,553	0	48	0	1	1,553	0	0	-86	37	
9	3350.82	70,945	-34	2,075	0	46	0	0	1,481	0	0	-674	37	
10	3350.78	70,907	-38	1,767	0	43	0	0	1,793	0	0	-55	37	
11	3350.74	70,871	-36	1,722	0	40	0	0	1,728	0	0	-70	37	
12	3352.07	72,140	1,269	1,707	107	38	0	0	1,557	0	0	974	37	
13	3351.73	71,812	-328	1,548	0	36	1	1	1,874	0	0	-36	37	
14	3351.71	71,796	-16	1,692	0	35	1	0	1,805	0	0	63	37	
15	3352.07	72,140	344	1,862	0	33	1	0	1,604	0	0	54	37	
16	3352.13	72,197	57	2,087	0	32	1	0	2,066	0	0	5	37	
17	3352.36	72,417	220	2,523	0	33	1	0	2,315	0	0	-20	37	
18	3352.47	72,523	106	2,317	0	35	2	0	2,232	0	0	-12	36	
19	3351.82	71,901	-622	1,803	0	33	2	1	2,473	0	0	18	36	
20	3351.57	71,663	-238	1,853	0	33	2	0	2,157	0	0	35	36	
21	3351.20	71,311	-352	1,897	0	32	2	0	2,242	0	0	-37	36	
22	3351.26	71,368	57	2,254	0	32	2	0	2,138	0	0	-89	36	
23	3352.61	72,657	1,289	2,726	0	40	3	0	1,488	0	0	14	36	
24	3352.55	72,599	-58	2,447	0	35	3	0	2,516	0	0	-21	36	
25	3352.33	72,389	-210	1,900	0	33	3	0	2,195	0	0	55	37	
26	3351.91	71,987	-402	1,884	0	32	3	0	2,175	0	0	-140	37	
27	3351.40	71,501	-486	1,738	0	32	3	0	2,217	0	27	-9	37	
28	3351.29	71,397	-104	2,119	0	32	3	0	2,279	0	27	54	37	
29	3351.63	71,720	323	2,656	0	29	3	0	2,279	0	28	-52	36	
30	3352.38	72,436	716	2,744	0	28	3	0	1,969	0	29	-55	36	
31	3352.64	72,686	250	2,261	0	27	3	0	2,083	0	29	77	36	
Total				1,821	61,343	107	1,251	45	4	60,520	0	221	-90	1,134

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

May 2010

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Apr 30	1558.27	65,816				
1	1558.16	65,621	-195		79	
2	1558.16	65,616	-5		10	
3	1558.05	65,426	-190		117	
4	1557.99	65,319	-107		89	
5	1557.99	65,314	-5		5	
6	1557.99	65,309	-5		5	
7	1557.99	65,304	-5		5	
8	1557.98	65,299	-5		4	
9	1557.98	65,295	-4		20	
10	1557.97	65,274	-21		74	
11	1557.97	65,269	-5		74	
12	1557.80	64,983	-286		69	
13	1557.69	64,789	-194		79	
14	1557.75	64,895	106		74	
15	1557.61	64,648	-247		11	
16	1557.53	64,507	-141		91	
17	1557.69	64,789	282		73	
18	1557.69	64,789	0		74	
19	1557.69	64,789	0		85	
20	1557.64	64,701	-88		93	
21	1557.55	64,542	-159		94	
22	1557.39	64,260	-282		94	
23	1557.47	64,401	141		103	
24	1557.47	64,401	0		194	
25	1557.47	64,401	0		194	
26	1557.42	64,313	-88		194	
27	1557.42	64,313	0		194	
28	1557.39	64,260	-53		194	
29	1557.20	63,927	-333		194	
30	1557.17	63,874	-53		178	
31	1557.09	63,734	-140		94	
Total			-2,082	2,452	2,858	-1,676

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

May 2010

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Table A	Rec.	Recovery	Local	Article 56C	Other	
	No.	Structure	Mile								
17E	40	Edmonston Pumping Plant	293.45	96,075							
	41		298.65		KCWA Tej.-Cas	Stub					
17F		Check No. 41	303.41								
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0						
		Check No. 42	304.99								
18A	43	Alamo Powerplant	305.73	(Includes 61,963 AF generation, 0 AF plant bypass, and 4,703 AF Tehachapi Bypass)	66,666						
			306.71	AVEK 305th Street West (T287)	0						
19			308.05	AVEK 294th Street West (T267)	0						
		Check No. 43	309.70								
	44		311.84	LADWP Connection	0						
			313.50	AVEK 245th Street West (T269)	0						
	Check No. 44		314.81								
	45		314.93	AVEK 235th Street West (T270)	0						
			315.57	AVEK 225th Street West (T271)	0						
	Check No. 45		319.74								
	46		323.19	Antelope Valley-East Kern WA Fairmont (T272)	934	116	0	0	934	0	
				Mojave Water Agency Fairmont (T272)	116						
20A	Check No. 46		323.84	Reach 19 Total:	1,050	116	0	0	934	0	
	47	Check No. 47	326.77								
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	62	1,150	0	0	62	2,522	
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed						
	Check No. 48		330.82								
	Check No. 49		335.93								
	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	3,672						
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	98						
			340.92	AVEK WA-Temp (T387)	0						
	Check No. 50		341.51								
20B	51		342.06	AVEK WA-Temp (T386)	0						
	Check No. 51		342.07								
	52		342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0						
		Check No. 52	343.74								
	53		346.98	Palmdale WD (T276) Temp.	464						
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	35						
21	Check No. 53		348.17								
			349.52	Palmdale WD (T394)	0						
	54	Check No. 54	350.25								
	55	Check No. 55	352.70								
	56	Check No. 56	354.76								
	57		354.97	AVEK WA- Delivered through Little Rock Creek ID (T278)	0						
			354.97	Palmdale WD (T276)	0						
22A			354.97	Palmdale WD (T391)	0						
	Check No. 57		356.93								
	58		357.60	AVEK 95th Street East (T279)	84						
			357.72	AVEK 96th Street East (T280)	6						
			359.76	AVEK East Side Treatment Plant (T281)	221						

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

May 2010

(In acre-feet)

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				Table A	Rec.	Recovery	Local	Article 56C	Other	
	No.	Structure	Mile								
22B	58	Pearblossom Pumping Plant	360.61		62,602	4	437	45	3/ 1,592	4/ 100	
	59	Check No. 59	366.09								
	60		366.50	AVEK Big Rock Siphon (T368)	0						
	61	Check No. 60	373.94								
	62	Check No. 61	379.00								
	63	Check No. 62	384.26								
	64		389.20	Mojave Water Agency White Road 24" & 42" (T282)	4						
	65	Check No. 63	395.10								
	66	Check No. 64	400.32								
			401.10	Mojave Water Agency Morongo 24" & 42" (T284)	437						
23		Check No. 65	403.41								
24		Mojave Siphon	405.58	Las Flores Ranch Exchange	1,134						
		Mojave Siphon Powerplant	405.65		1,134						
		Silverwood Lake	407.65	MWA CS DAM (T288)	0						
				California State Park Silverwood (T288)	4						
			407.70	Creastline-Lake Arrowhead WA State Project Water (T289)	0						
25		San Bernardino Intake Tunnel		Non-Project Water (T289)	45						
26A		Devil Canyon Powerplant	412.73		60,520	13,540	257	5/ 23,836	3/ 1,592	4/ 100	
		Devil Canyon Afterbay Control Structures	412.88	MWD-Rialto (T292)	0						
				MWD-Rialto (T293)	13,540						
				Desert Water Agency Transfer (T293)	0						
				Coachella Valley WD Transfer (T293)	0						
				MWD EBX-1 (T290)	257						
				MWD EBX-1 (T291)	0						
				East Branch Extension	3,487						
				MWD (T294)	34,373						
28G	28H	Santa Ana Valley Pipeline	425.46								
			433.06	MWD-SC Box Springs (T295)	6,837						
			440.05	MWD-SC Perris Bypass Pipeline (T296)	0						
28J	69	Lake Perris	442.00	MWD-SC (T297)	153	153	2,664	41	3/ 1,592	4/ 100	
			443.44	MWD-SC 54" & 78" (T299)	2,664						
				Calif. State Park							
				Lake Perris Parks & Rec. (T298)	41						
				MWD Total:	87,404	62,707	0	24,697	0	0	

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ To San Gabriel Valley MWD.

3/ Includes 0 AF to San Gabriel Valley MWD, 992 AF to San Bernardino Valley MWD, and 600 AF to San Gorgonio Pass WA.

4/ San Bernardino Table A returned to San Gorgonio Pass WA.

5/ Arvin Edison Recovery.

Table 32. Water Quality At Selected SWP Locations

May 2010

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	41	145	43	56	83	84	74	75	71
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.001	0.002	0.002	0.002	0.003	0.003	0.003
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.5	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	0.08	0.09	0.13	0.28	0.29	0.20	0.18	0.15
Calcium	mg/l	8	23	13	16	23	23	23	24	22
Chloride	mg/l as C	1.0	30.0	28.0	42.0	91.0	88.0	64.0	60.0	49.0
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	0.0	0.0	0.0	0.0	0.0
Copper	mg/l	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hardness	mg/l	38.000	148.000	61.000	78.000	120.000	120.000	108.000	104.000	91.000
Iron	mg/l	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.000	22.000	7.000	9.000	15.000	15.000	12.000	11.000	9.000
Manganese	mg/l	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	0	0	1	0	1	1	1	0	1
Organic Carbon, Dissolved	mg/l	NR	5.100	2.800	3.400	4.100	4.300	5.200	3.700	3.700
Organic Carbon, Total	mg/l as N	NR	5.50	3.00	3.50	4.30	4.50	4.10	3.80	4.30
Phosphate-Ortho	mg/l as P	<0.01	0.10	0.08	0.07	0.08	0.06	NR	0.03	0.03
Phosphorus-Total	mg/l	0	0.16	0.11	0.13	0.10	0.09	0.07	0.06	0.07
Selenium	mg/l	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001	<0.001	<0.001
Sodium	mg/l	4	40	25	37	63	63	50	49	40
Specific Conductance	µS/cm	91	450	249	328	555	542	459	449	399
Sulfate	mg/l	2	41	29	40	46	46	46	62	55
Total Dissolved Solids	mg/l	55	258	144	197	323	319	260	251	226
Turbidity	NTU	5	28	14	3	<1	5	6	7	3
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.019	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

May 2010

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Rio Vista	Electrical Conductivity in millisiemens/cm								Cl in mg/l		
			Net Delta Outflow Index			Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average		md	md	md	14dm	md	14dm	md	md	md		
38	1	6.12	4.15	28,592	28,592	20,255	0.29	0.21	0.21	0.22	0.29	0.28	0.30	0.65	0.33	107
	2	5.96	4.03	29,204	28,898	21,124	0.29	0.19	0.20	0.22	0.29	0.28	0.32	0.67	0.34	108
	3	5.51	3.91	29,678	29,158	20,590	0.29	0.18	0.20	0.21	0.29	0.29	0.32	0.67	0.35	107
	4	5.15	3.83	27,759	28,808	19,581	0.29	0.17	0.19	0.21	0.29	0.29	0.32	0.64	0.35	107
	5	4.84	3.73	26,193	28,285	18,572	0.29	0.17	0.19	0.21	0.28	0.29	0.33	0.62	0.35	102
	6	4.75	3.51	25,000	27,738	16,983	0.29	0.17	0.18	0.21	0.28	0.29	0.31	0.59	0.35	101
	7	4.60	0.00	24,891	27,331	16,538	0.00	0.23	0.18	0.20	0.27	0.29	0.28	0.56	0.33	102
	8	0.00	0.00	23,514	26,854	16,396	0.00	0.39	0.18	0.20	0.26	0.28	0.25	0.53	0.30	103
	9	0.00	0.00	21,939	26,308	15,122	0.00	0.43	0.18	0.20	0.26	0.28	0.23	0.52	0.29	99
	10	5.48	3.80	22,516	25,929	14,190	0.27	0.48	0.18	0.20	0.25	0.28	0.23	0.53	0.28	102
	11	5.76	3.68	22,091	25,580	13,405	0.27	0.47	0.18	0.19	0.25	0.28	0.23	0.54	0.27	107
	12	5.64	3.71	22,007	25,282	13,301	0.27	0.42	0.18	0.19	0.25	0.27	0.22	0.51	0.27	108
	13	5.98	3.98	21,035	24,955	12,805	0.27	0.51	0.19	0.19	0.25	0.27	0.23	0.50	0.26	103
	14	6.30	4.18	20,621	24,646	12,742	0.27	0.64	0.19	0.19	0.25	0.27	0.23	0.51	0.27	103
	15	6.39	4.20	19,212	24,284	12,055	0.27	0.61	0.19	0.19	0.24	0.26	0.24	0.49	0.29	113
	16	6.45	4.31	17,424	23,855	11,191	0.27	0.66	0.20	0.19	0.24	0.26	0.25	0.48	0.27	112
	17	6.52	4.34	16,888	23,445	10,562	0.28	0.67	0.20	0.19	0.24	0.26	0.27	0.47	0.30	203
	18	6.16	4.17	17,052	23,090	10,923	0.27	0.51	0.19	0.19	0.24	0.25	0.28	0.48	0.31	193
	19	5.71	3.97	17,394	22,790	11,278	0.26	0.41	0.19	0.19	0.24	0.25	0.30	0.49	0.33	195
	20	5.15	3.72	17,367	22,519	11,582	0.26	0.31	0.19	0.19	0.24	0.25	0.31	0.51	0.34	189
	21	5.54	3.80	17,684	22,289	11,984	0.26	0.33	0.19	0.19	0.23	0.25	0.31	0.49	0.33	194
	22	5.63	3.72	16,501	22,026	11,816	0.25	0.31	0.18	0.19	0.23	0.24	0.31	0.47	0.34	194
	23	5.88	3.74	16,831	21,800	12,199	0.25	0.31	0.18	0.19	0.23	0.24	0.30	0.44	0.34	185
	24	6.03	3.87	17,567	21,623	11,929	0.25	0.40	0.18	0.19	0.23	0.24	0.30	0.43	0.34	188
	25	6.04	3.91	17,871	21,473	11,933	0.25	0.43	0.18	0.19	0.23	0.24	0.28	0.42	0.33	107
	26	6.37	4.13	17,301	21,313	12,473	0.26	0.60	0.18	0.19	0.23	0.24	0.27	0.44	0.30	211
	27	6.49	4.25	15,296	21,090	12,594	0.26	0.73	0.18	0.19	0.23	0.23	0.32	0.50	0.33	194
	28	6.49	4.11	16,761	20,935	11,441	0.27	0.74	0.17	0.18	0.22	0.23	0.34	0.54	0.34	187
	29	6.15	4.03	18,610	20,855	11,430	0.27	0.60	0.17	0.18	0.22	0.23	0.35	0.54	0.35	154
	30	6.10	4.14	20,574	20,846	13,102	0.27	0.54	0.17	0.18	0.22	0.23	0.36	0.51	0.37	153
	31	6.03	4.23	21,326	20,861	14,151	0.26	0.52	0.17	0.18	0.22	0.23	0.36	0.48	0.37	152

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

May 2010

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	March 17, 2010	Simazine	0.02
California Aqueduct At Banks Pumping Plant	March 17, 2010	Simazine	0.08
O'Niell Forebay Outlet Check 13	March 16, 2010	Simazine	0.07
Delta Mendota Canal At McCabe Road	March 16, 2010	Simazine	0.02
California Aqueduct Near Kettleman City (Check 21)	March 16, 2010	Diuron Simazine	0.36 0.07
California Aqueduct At Near Highway 119 (Check 29)	March 16, 2010	Diuron Simazine	1.40 0.02
California Aqueduct at Tehachapi Afterbay (Check 41)	March 17, 2010	Diuron Simazine	1.50 0.03
California Aqueduct At Devil Canyon Headworks	March 17, 2010	Diuron Simazine	1.68 0.02

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load	May 2010
	Generation	Load			Total Load	SWP Load			
1	1,210	22,968	17,349	28,102	396,976	396,976	243,519	818	
2	831,908	19,547	19,731	30,577	396,496	396,496	241,035	729	
3	1,364	23,441	19,793	28,089	397,096	397,096	281,881	676	
4	1,496	23,958	20,406	31,143	397,416	397,416	299,045	703	
5	295,559	24,574	19,380	26,569	395,768	395,768	275,546	709	
6	2,875,411	11,550	22,187	27,460	398,784	398,784	246,978	735	
7	4,419,833	12,353	26,347	34,499	480,136	480,136	245,190	712	
8	765,435	20,823	29,592	35,635	896,088	896,088	160,375	818	
9	942,634	20,966	27,548	32,608	599,744	599,744	127,515	837	
10	977,427	22,495	23,359	24,581	266,576	266,576	143,418	928	
11	1,144,253	20,141	17,875	10,352	4,400	4,400	68,730	901	
12	4,446,090	8,547	11,710	10,382	0	0	77,432	832	
13	5,057,756	7,238	22,979	21,671	0	0	72,043	836	
14	5,518,975	6,963	27,180	27,308	0	0	71,257	763	
15	3,844,423	13,530	33,192	35,599	0	0	118,803	704	
16	1,447,875	18,139	33,681	39,355	0	0	114,242	719	
17	5,280,066	8,932	36,094	41,308	0	0	127,058	876	
18	2,624,809	11,924	32,357	34,749	0	0	77,041	776	
19	6,100,171	7,326	28,056	30,928	0	0	73,347	725	
20	6,305,420	7,117	29,289	32,948	8,224	8,224	73,378	742	
21	5,949,427	6,347	31,778	37,043	245,320	245,320	75,918	835	
22	4,057,328	8,118	29,737	29,402	863,656	863,656	110,652	883	
23	2,611,213	9,515	31,455	32,307	473,272	473,272	98,052	837	
24	3,901,502	8,360	28,015	33,956	390,216	390,216	145,344	819	
25	5,086,939	8,371	24,790	31,630	460,744	460,744	196,931	891	
26	5,046,305	6,215	23,650	27,697	1,869,616	1,869,616	185,722	823	
27	4,739,625	22	26,652	31,902	644,216	644,216	192,422	892	
28	4,567,464	0	25,788	29,896	1,255,288	1,255,288	208,224	807	
29	3,976,577	0	26,243	30,892	1,942,864	1,942,864	216,357	709	
30	3,730,518	0	27,877	31,349	2,281,008	2,281,008	204,263	557	
31	3,769,436	0	30,270	38,133	2,399,808	2,399,808	226,491	576	
Total	100,318,449	359,480	804,360	938,067	17,463,712	17,463,712	4,998,202	24,167	

Table 36. San Luis Field Division Energy Data

(in kWh)

May 2010

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	767,821	431,821	573,419	183,419	18,249	18,249
2	627,064	291,064	827,189	203,189	15,466	15,466
3	684,477	348,477	820,864	196,864	14,289	14,289
4	794,572	458,572	2,070,838	822,838	6,908	6,908
5	770,504	434,504	899,954	41,954	12,232	-11,768
6	943,007	607,007	1,736,856	644,856	9,438	-14,562
7	724,378	388,378	1,969,594	721,594	7,656	-16,344
8	932,040	596,040	1,208,339	350,339	12,199	-11,801
9	938,228	602,228	1,703,768	845,768	7,953	-16,047
10	669,017	333,017	1,851,135	759,135	9,801	-14,199
11	866,068	530,068	2,116,906	1,102,906	8,140	8,140
12	1,044,095	876,095	1,322,750	790,750	12,496	-3,504
13	906,212	738,212	2,449,359	2,069,359	4,917	4,917
14	1,189,652	1,021,652	2,666,455	2,134,455	6,721	6,721
15	990,133	822,133	2,641,815	2,109,815	6,699	6,699
16	757,739	589,739	2,598,651	2,006,651	6,754	6,754
17	1,104,629	936,629	2,570,040	1,756,040	6,941	-1,059
18	898,862	730,862	1,830,499	646,499	7,601	7,601
19	1,018,888	850,888	1,827,155	1,035,155	7,788	7,788
20	1,283,780	1,115,780	1,832,765	1,256,765	7,898	7,898
21	1,304,575	1,136,575	2,332,143	1,468,143	7,623	7,623
22	1,131,889	963,889	2,388,375	1,812,375	7,689	7,689
23	1,030,622	862,622	2,359,456	1,799,456	7,810	-16,190
24	861,230	693,230	2,331,153	1,211,153	7,854	-8,146
25	1,072,877	904,877	1,769,911	1,209,911	7,788	7,788
26	1,324,771	1,156,771	1,770,582	1,210,582	7,722	-278
27	1,190,052	1,022,052	1,411,586	851,586	5,632	-2,368
28	1,510,456	1,174,456	33	33	22,583	22,583
29	1,301,654	965,654	951,170	951,170	10,384	10,384
30	1,127,612	791,612	0	0	22,231	22,231
31	956,642	620,642	0	0	21,945	-2,055
Total	30,723,548	22,995,548	50,832,760	30,192,760	319,407	71,407

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

May 2010

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	34,687	92,364	26,541	24,385	28,223	586,123	657,283	1,468,236	5,453,109
2	35,958	94,651	47,983	44,535	47,292	559,174	707,200	1,612,226	5,884,866
3	26,814	70,487	20,118	18,048	21,126	575,944	742,640	1,666,302	6,104,106
4	28,399	74,662	33,640	31,080	34,254	830,866	811,753	1,764,180	6,453,837
5	31,835	81,625	42,677	40,219	41,448	695,727	772,141	1,693,318	6,137,316
6	30,355	76,577	43,534	40,668	43,356	747,938	757,894	1,657,733	5,918,481
7	31,052	78,597	44,886	41,818	44,839	705,956	720,985	1,553,772	5,460,858
8	39,327	99,223	38,531	35,817	38,775	646,911	715,577	1,533,213	5,680,098
9	35,443	90,520	48,145	44,108	48,561	831,632	955,123	2,129,875	7,916,022
10	31,895	79,007	26,552	23,255	26,607	610,816	713,680	1,560,262	5,705,613
11	36,412	92,072	43,587	41,986	43,622	829,528	818,798	1,716,583	6,025,266
12	33,054	82,481	40,157	37,243	39,889	729,877	706,309	1,543,102	5,664,465
13	32,457	83,086	48,560	44,641	49,020	763,434	713,810	1,523,247	5,371,623
14	35,941	90,788	40,228	37,660	40,869	862,744	828,889	1,797,158	6,381,153
15	44,502	112,880	41,535	37,981	41,446	719,854	769,208	1,684,760	6,147,684
16	41,663	104,687	37,717	34,001	37,563	670,388	828,061	1,838,045	6,795,873
17	33,475	83,561	40,248	37,667	40,669	875,241	976,721	2,178,066	7,756,209
18	32,015	82,006	31,102	28,744	32,669	853,789	952,812	2,089,659	7,638,813
19	39,701	98,249	43,283	40,328	43,269	859,271	827,203	1,783,199	6,316,569
20	39,216	97,351	52,763	48,982	53,252	1,015,364	926,780	2,028,037	7,053,561
21	29,383	75,324	36,781	33,756	36,914	922,615	965,405	2,123,297	7,764,660
22	18,917	51,829	36,103	33,346	36,670	897,862	963,097	2,145,902	8,015,139
23	25,579	67,312	55,064	50,033	56,009	1,070,496	1,289,486	2,870,560	10,561,536
24	20,303	51,656	43,054	40,671	43,408	959,402	1,063,276	2,353,747	8,612,703
25	31,905	82,146	49,834	46,625	51,186	747,419	832,847	1,804,484	6,681,258
26	35,102	87,430	57,445	53,398	57,097	876,931	895,396	1,947,902	7,058,664
27	39,412	98,211	48,393	45,344	50,432	730,300	855,724	1,881,220	6,612,624
28	37,134	95,751	55,928	51,544	54,961	1,046,414	1,047,199	2,252,448	8,212,266
29	45,460	116,755	72,940	66,811	73,163	1,083,454	1,152,266	2,521,068	9,210,861
30	35,486	90,839	51,994	47,759	51,819	901,114	1,073,567	2,395,525	8,905,680
31	25,911	68,903	40,852	38,829	42,438	793,267	918,553	2,030,776	7,415,091
Total	1,038,793	2,651,029	1,340,174	1,241,284	1,350,846	24,999,851	26,959,684	59,147,902	214,916,004

Table 38. Southern Field Division Energy Data

(in kWh)

May 2010

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	171,030	332,249	528,000	192,585	1,155,303	2,256,836	121,377	1,702	535	429
2	224,480	333,998	528,000	181,482	1,250,805	2,010,881	129,531	17,251	22,463	426
3	76,375	334,174	528,000	247,534	1,158,645	2,199,568	130,641	32,801	43,968	417
4	210,777	334,814	528,000	262,534	1,327,762	2,235,416	138,819	22,541	32,237	3,349
5	189,638	334,433	528,000	219,325	1,167,449	2,345,648	128,344	22,594	32,326	3,143
6	191,148	332,081	528,000	216,977	1,126,752	2,133,360	128,176	22,872	32,211	537
7	172,057	330,607	528,000	199,905	1,125,523	2,013,185	131,966	10,057	11,776	554
8	139,339	335,345	528,000	203,122	1,069,219	1,924,751	121,592	1,769	615	578
9	244,108	336,147	528,000	263,344	1,480,764	1,824,786	152,466	13,708	16,453	426
10	207,400	333,739	528,000	214,075	1,243,448	2,207,603	131,402	23,380	32,251	401
11	139,665	338,666	528,000	243,778	1,230,332	2,123,636	127,286	22,814	32,166	3,057
12	140,681	332,195	528,000	213,595	1,144,937	1,929,506	122,765	27,723	32,242	2,851
13	140,805	333,847	528,000	192,422	1,173,348	2,301,365	112,486	26,852	29,530	562
14	141,742	330,604	528,000	249,153	1,300,245	2,239,920	124,698	17,050	16,715	442
15	140,805	335,829	528,000	242,766	1,251,376	1,984,450	137,670	1,773	591	600
16	138,669	338,216	528,000	156,269	1,450,926	2,539,354	155,045	21,365	22,011	577
17	280,468	637,559	1,056,000	275,110	1,596,989	2,861,849	185,422	24,781	32,368	421
18	289,500	557,018	1,056,000	230,560	1,648,634	2,746,670	160,156	24,810	33,729	3,222
19	172,259	639,895	1,056,000	182,241	1,208,060	2,978,359	131,804	25,879	33,366	3,139
20	167,574	639,662	1,056,000	225,424	1,131,270	2,659,046	139,029	32,863	43,655	650
21	289,132	638,272	1,056,000	199,558	1,547,529	2,746,699	142,182	33,259	44,438	600
22	228,257	639,641	1,056,000	184,666	1,469,639	2,651,306	171,464	17,541	22,826	455
23	419,429	639,579	1,056,000	307,920	1,865,268	1,834,070	209,367	17,412	22,586	421
24	315,386	640,019	1,056,000	248,584	1,637,484	3,115,843	177,503	32,546	43,923	410
25	300,533	639,317	1,056,000	227,416	1,138,993	2,710,274	147,011	30,807	43,189	3,227
26	253,966	638,766	1,056,000	235,083	1,385,472	2,667,488	146,451	31,344	43,219	2,925
27	234,350	638,483	1,056,000	179,040	1,207,702	2,725,276	128,933	33,191	43,871	418
28	280,659	637,516	1,056,000	330,540	1,424,345	2,792,804	159,553	35,120	46,275	421
29	252,246	638,550	1,056,000	313,487	1,920,878	2,813,119	206,544	25,344	32,941	420
30	274,880	641,131	1,056,000	273,561	1,826,264	2,446,362	209,759	26,016	33,464	629
31	278,510	641,412	984,000	257,542	1,524,491	2,586,996	172,918	25,184	33,428	702
Total	6,705,867	14,853,761	24,216,000	7,169,598	42,189,851	74,606,429	4,582,355	702,349	911,369	36,410

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.